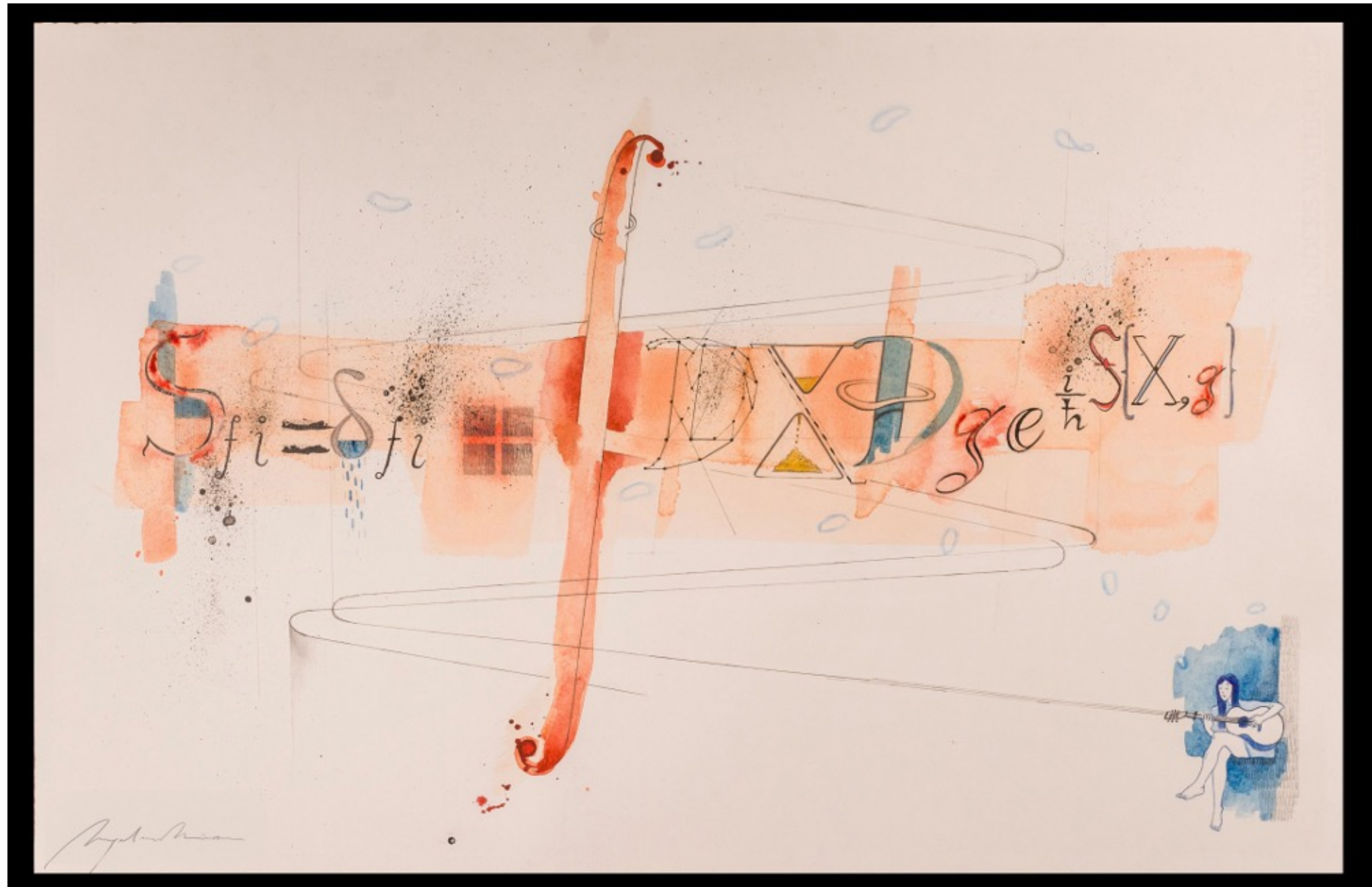


Quando a arte encontra a astronomia

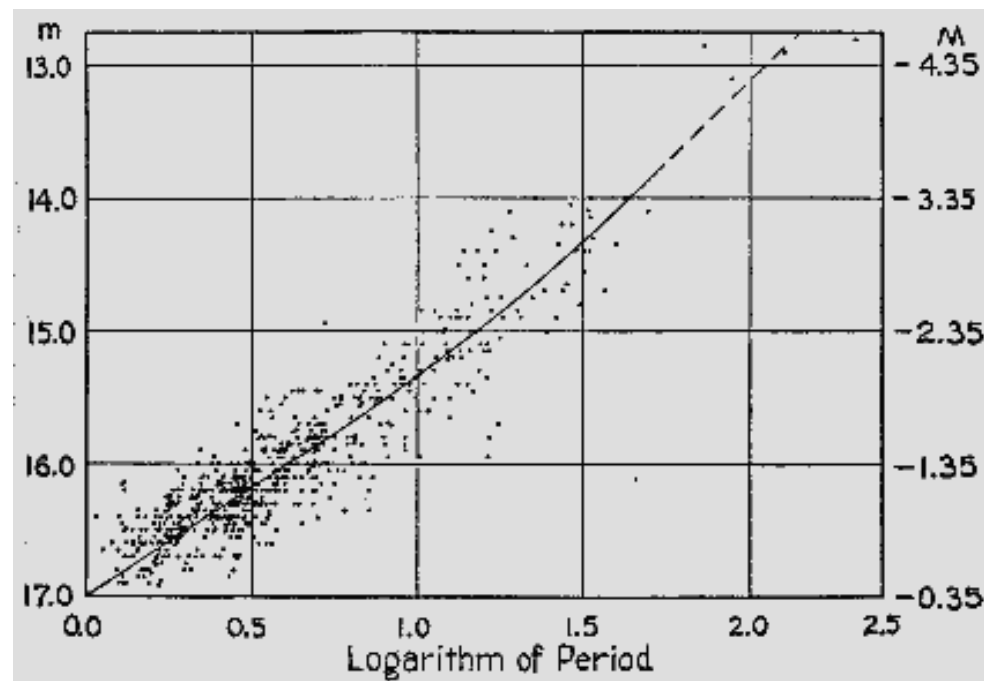


Arianna Cortesi, Federica Maglioni, Daniela Mastrangelo



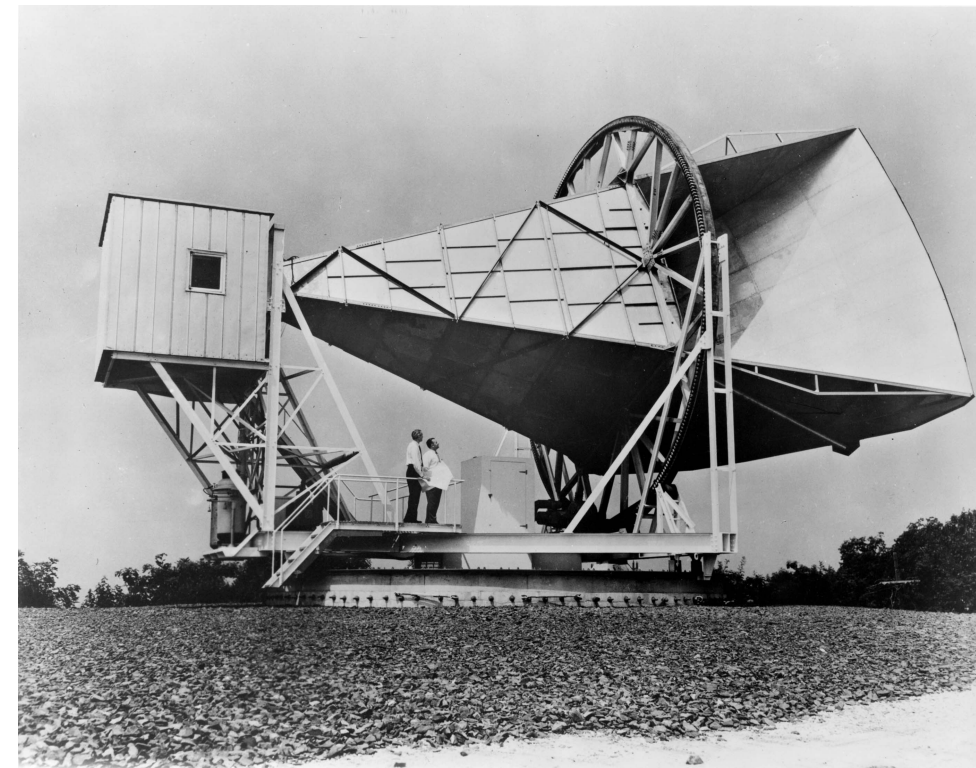
Pedindo desculpas o, o canto as musas:
duas pequenas historias

Henrietta Levitt



Hubble, em 1925 mensura
a distancia de NGC 6822
11 Cepheids
 $d > 700,000 \text{ ly} > \text{SMC, LMC}$

CMB



Descoberta casualmente por dois radio-astrônomos, Arno Penzias and Robert Woodrow Wilson, na Holmdel Horn Antenna (1964), mas postulada teoricamente já nos anos 1950 por Alpher, Bethe, Gamow ("The Origin of Chemical Elements", Physical Review)

Arte e astronomia antes do telescópio:

as 7 artes
Canaletto
Leonardo
Michelangelo



Ars artis

arte { noun feminine }

teoria { noun feminine }

habilidade { noun feminine }

capacidade { noun feminine }

nave { noun feminine }

ofício { noun masculine }

perícia { noun feminine }

poder { verb masculine }

talento { noun masculine }



Ciencia

no medievo nascem as raízes do método científico

Galileo Galilei 1600 - Revolução científica

Empirismo XVII - empirismo + revolução industrial

Iluminismo - pesquisa experimental

positivismo - ciência moderna



Artes liberal - Trivium e Quadrivium

Artes do Trivio (artes sermocinales):

grammatica

retorica

dialettica

Artes do Quadrivio (artes reales):

aritmetica

geometria

astronomia

musica



Artes liberal - Evolução

grammatica	FILOLOGIA, LINGUISTICA
retorica	LETTERATURA, GIURISPRUDENZA
dialettica	LOGICA, INFORMATICA
aritmetica	MATEMATICA
geometria	
astronomia	FISICA
musica	

Arti meccaniche: MEDICINA, BIOLOGIA, CHIMICA,
FARMACIA, INGEGNERIA, ARCHITETTURA

Arti "Nuove": ARCHEOLOGIA, PSICOLOGIA,
SOCIOLOGIA, ANTROPOLOGIA, ECONOMIA



San Vitale - 547 d.C.



Leonardo Da Vinci (1472) e a prospettiva aérea

La prospettiva aerea è "la forma di rappresentazione, di natura soprattutto artistica, che ricerca le variazioni di intensità luminosa e di gradazioni di toni in rapporto alle distanze, allo spessore dello strato d'aria interposto, alla posizione della sorgente luminosa" (Vocabolario Treccani).



Michelangelo



Cappella Sistina

Non sembra solo di creazione. In quel gesto si può vedere molto di più: il protendersi di Adamo verso il Dio che lo ha appena creato, la descrizione della ascesi che deve compiere l'uomo per raggiungere l'unità col creato e col creatore, e che passa necessariamente per la strada dell'INTELLETTUO.





Entres Galileo e os CCDs

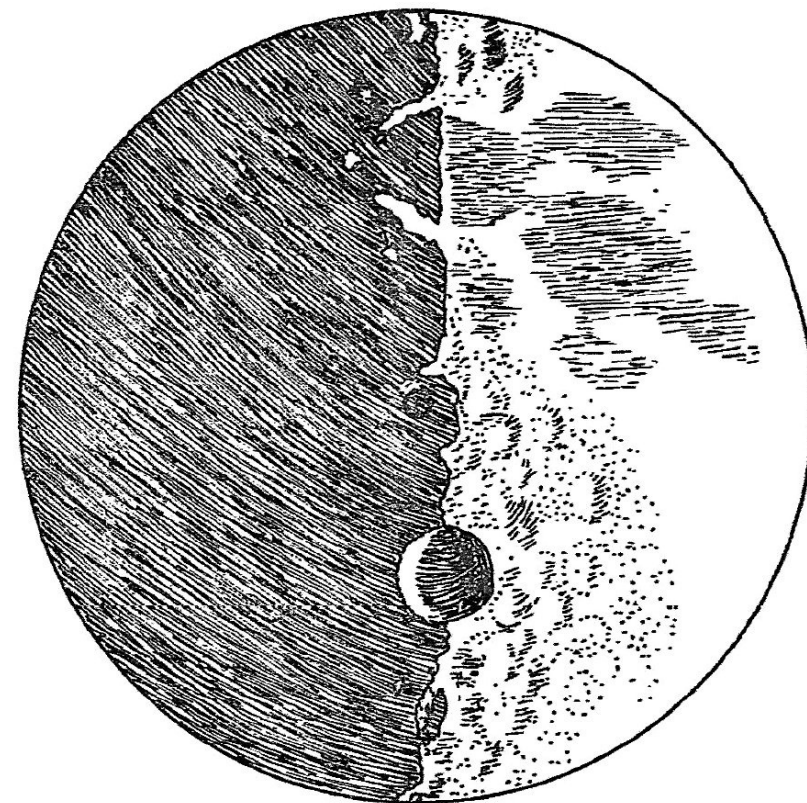
o telescópio è um instrumento
objectivo para relacionarse
com a volta celeste

para conseguir ver por exemplo
outras galaxias ... the great debate!

Pintar a lua - Galileu



Pintar a lua - Galileu vs Cantarella



Pintar a lua - Claude Mellan



Astro-12 Thomás Haddad
[https://www.youtube.com/watch?
time_continue=2714&v=6ukz4S1EWeg](https://www.youtube.com/watch?time_continue=2714&v=6ukz4S1EWeg)

Virgin - Claude Mellan



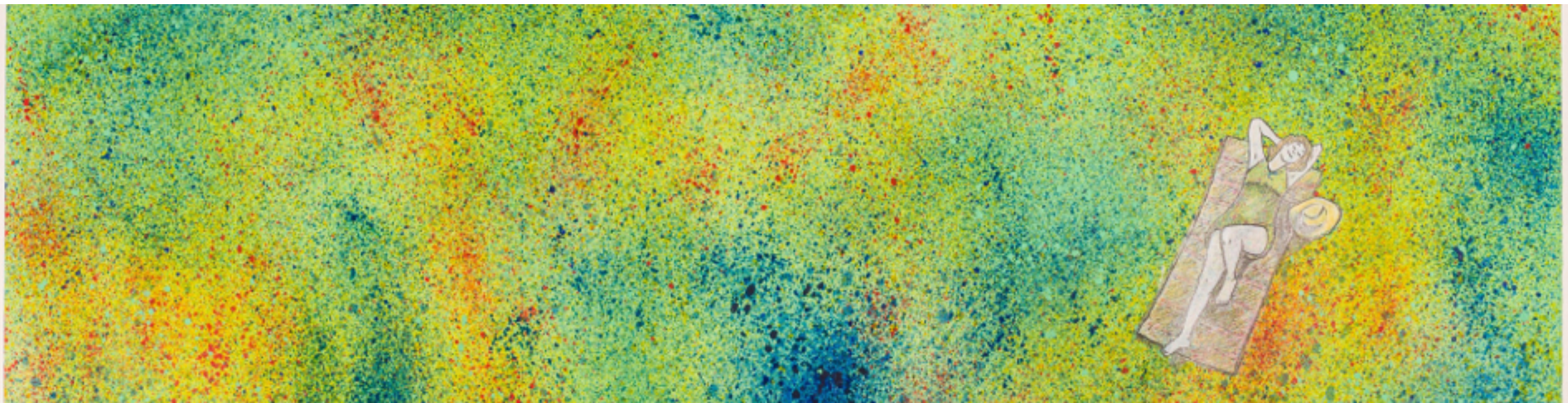
Canaletto - 1700



Vedutismo - Câmera ótica

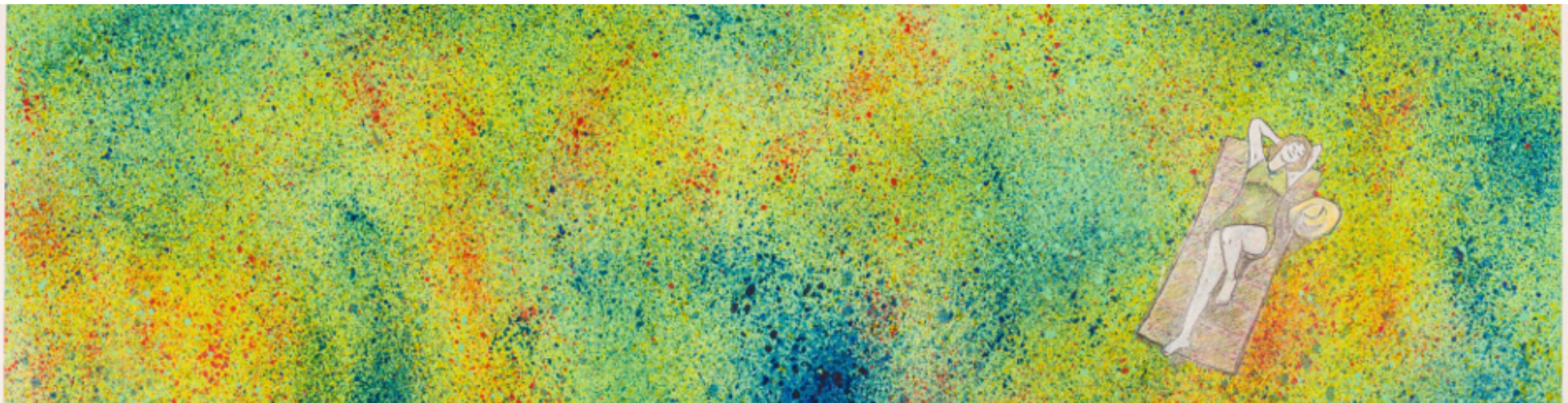


Arte e astronomia hoje

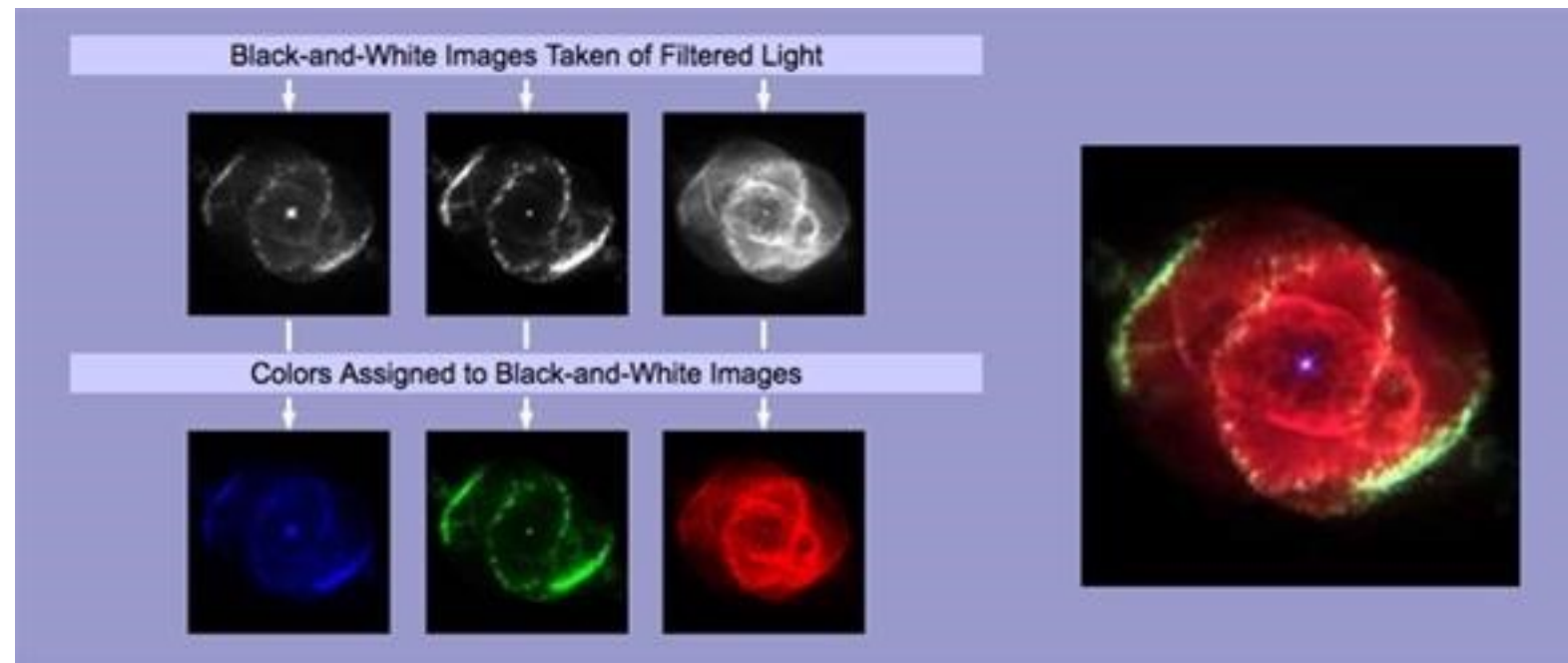


lastra fotográficas

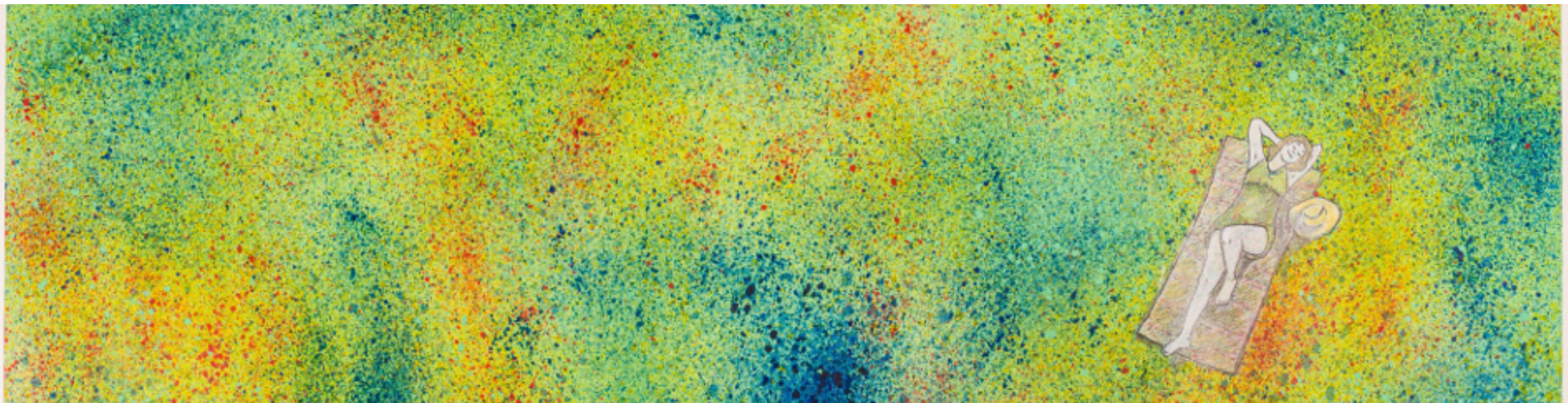
<https://sotonastroart.wordpress.com/theresearch/>



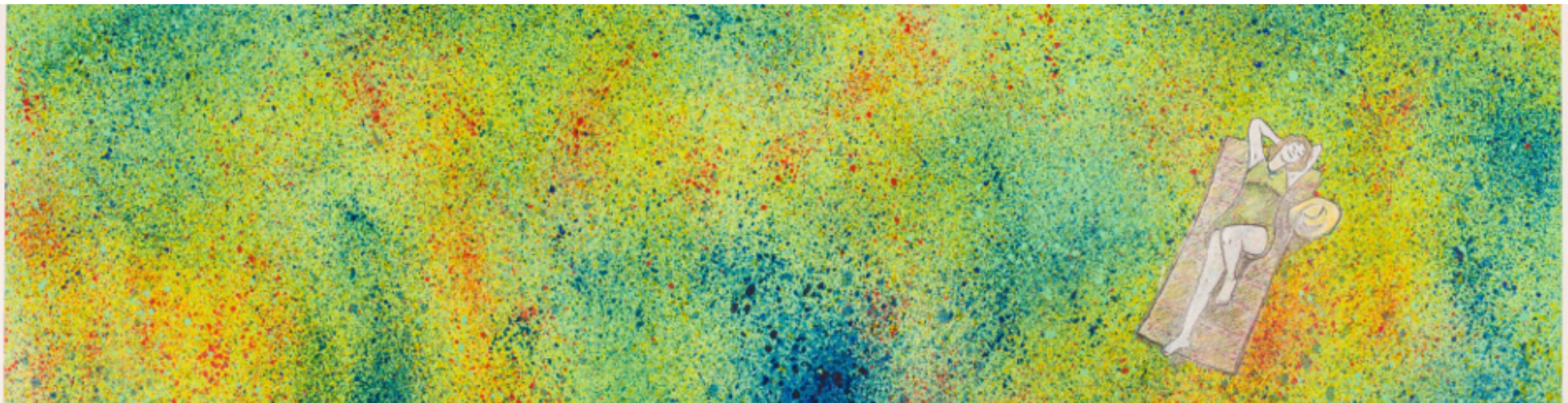
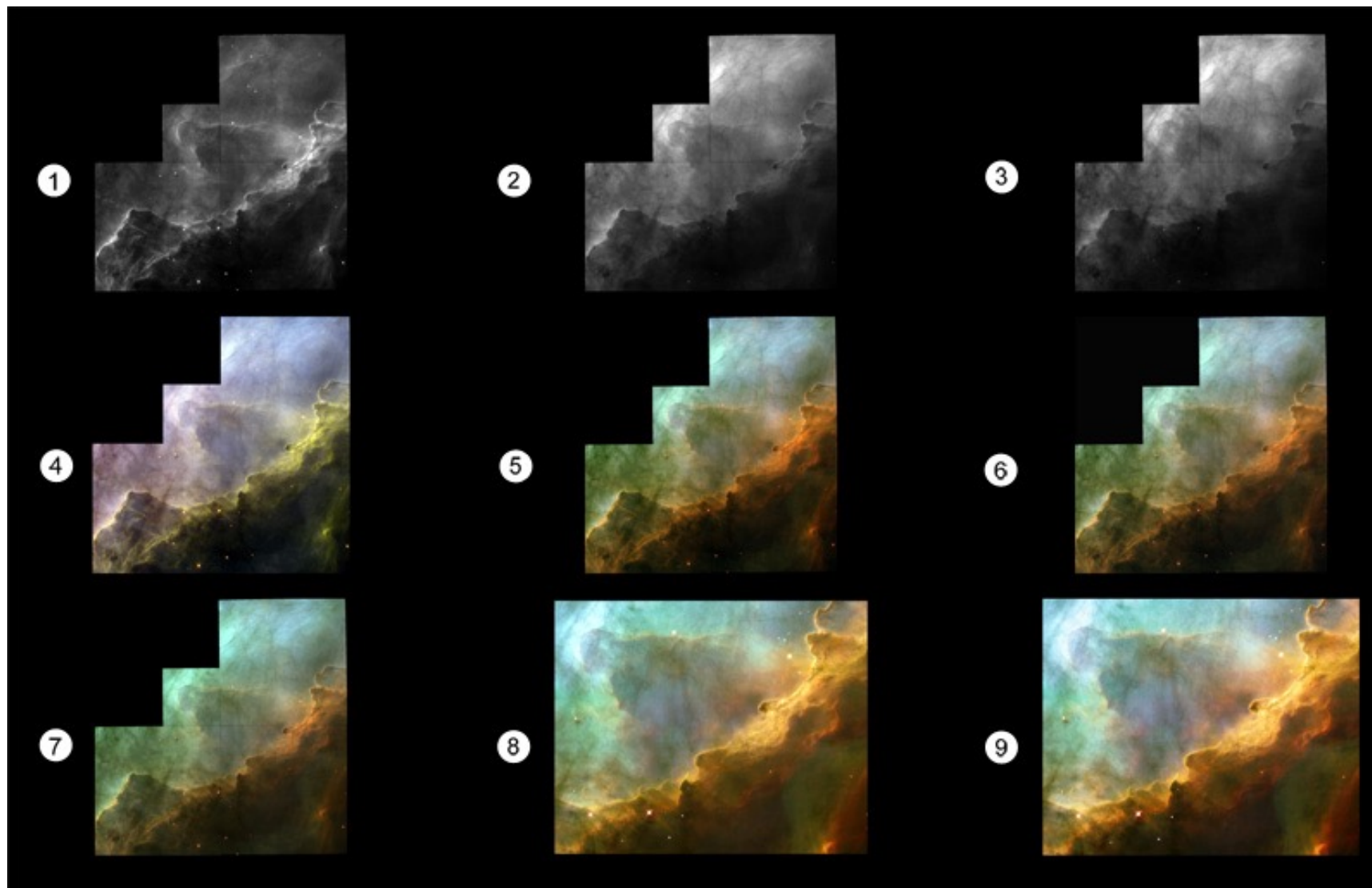
HST: as cores perdidas



https://www.spacetelescope.org/projects/fits_liberator/stepbystep/



HST: as cores perdidas



A matter of beauty

<https://matterofbeauty.wikispaces.com/>



Cose Cosmiche

<http://www.cosecosmiche.org/>

<http://www.martafernandezcalvo.com/index.php?/selected-works/cose-cosmiche/>



The year of astronomy 2009 (IAU)

<http://www.danielamastrangelo.com/prod.php?id=11>



THE JAMES WEBB SPACE TELESCOPE: ART + SCIENCE 2017

<https://jwst.nasa.gov/jwstArt/>



Rosetta

sonification

acquarello

vangelis



An intergalactic festival of music, science, arts, culture and the
exploration of space

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JODRELL BANK OBSERVATORY. CHESHIRE. UK

<http://2017.discoverthebluedot.com/>



Hershel brothers dance



Dance your PhD

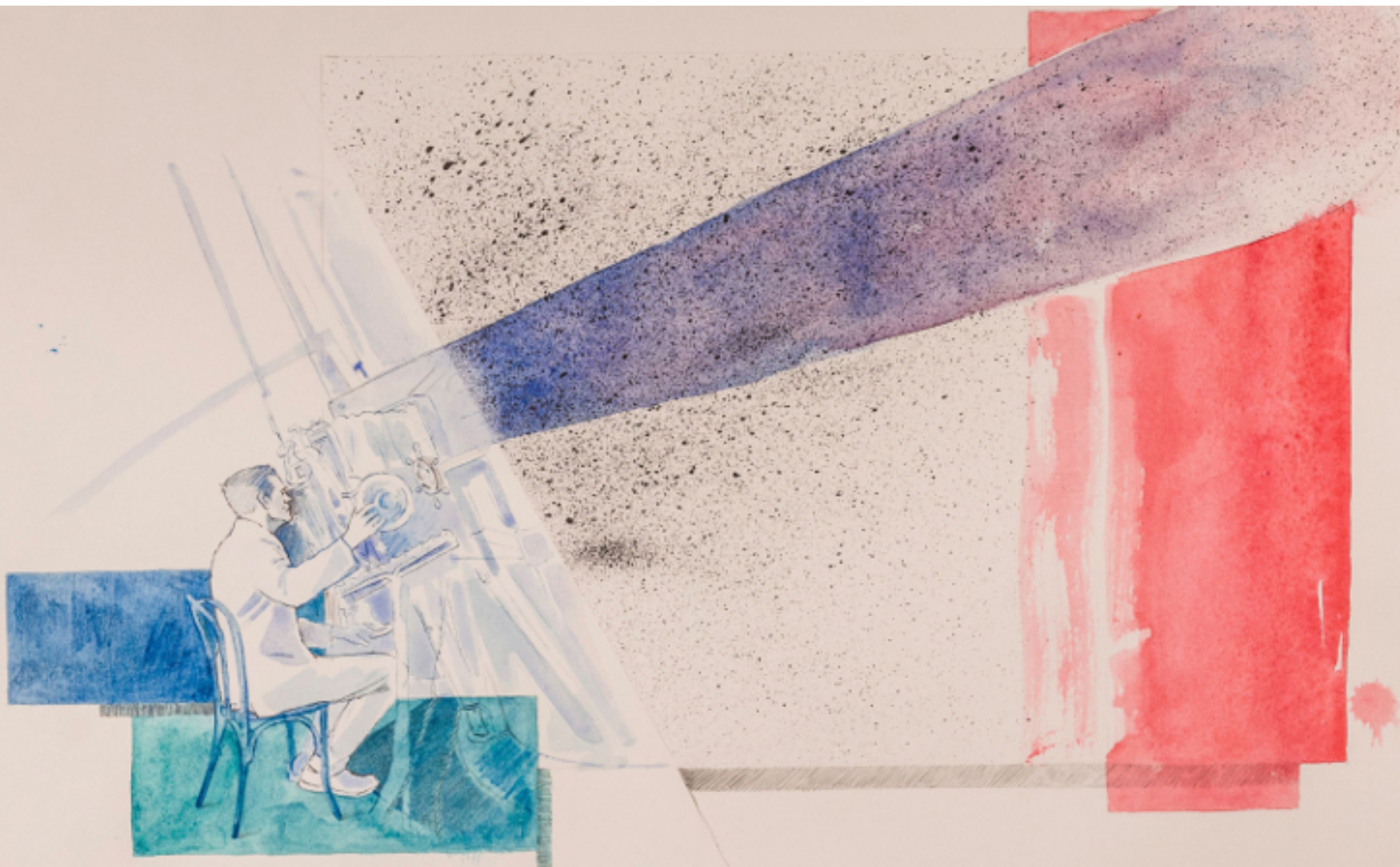


azulejos

<https://www.instagram.com/p/BXVchjwIIZL/?r=wa1>



Claudia Mignone, Claudia Casadio, Amanda Bauer, Ruth
Grutzbauch, Angeles Munon



"Look again at that dot. That's here. That's home. That's us. On it everyone you love, everyone you know, everyone you ever heard of, every human being who ever was, lived out their lives. The aggregate of our joy and suffering, thousands of confident religions, ideologies, and economic doctrines, every hunter and forager, every hero and coward, every creator and destroyer of civilization, every king and peasant, every young couple in love, every mother and father, hopeful child, inventor and explorer, every teacher of morals, every corrupt politician, every "superstar," every "supreme leader," every saint and sinner in the history of our species lived there – on a mote of dust suspended in a sunbeam."

- Carl Sagan, 1934-1996



You are here

The Earth as imaged from the the Voyager 1 spacecraft, as it exited the solar system in 1990. Earth is nearly 4 billion miles away in this image.